

Spool File For Oracle Students Trained by Mr.Sathish Yellanki

SQL> cl scr

SQL> SELECT Ename, Deptno, Sal
2 FROM Emp;

ENAME	DEPTNO	SAL
KING	10	5000
BLAKE	30	2850
CLARK	10	2450
JONES	20	2975
MARTIN	30	1250
ALLEN	30	1600
TURNER	30	1500
JAMES	30	950
WARD	30	1250
FORD	20	3000
SMITH	20	800
SCOTT	20	3000
ADAMS	20	1100
MILLER	10	1300

14 rows selected.

SQL> SELECT SUM(Sal) OrgSum
2 FROM Emp;

ORGSUM
29025

SQL> ED

Wrote file afiedt.buf

```
1 SELECT Ename, Deptno, Sal,  
2 (  
3 SELECT SUM(Sal)  
4 FROM Emp  
5 ) OrgSum  
6* FROM Emp  
7 /
```

ENAME	DEPTNO	SAL	ORGSUM
KING	10	5000	29025
BLAKE	30	2850	29025
CLARK	10	2450	29025
JONES	20	2975	29025

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```
.....
MARTIN          30          1250      29025
ALLEN           30          1600      29025
TURNER          30          1500      29025
JAMES           30           950      29025
WARD            30          1250      29025
FORD            20          3000      29025
SMITH           20           800      29025
SCOTT           20          3000      29025
ADAMS           20          1100      29025
MILLER          10          1300      29025
```

14 rows selected.

```
SQL> ED
Wrote file afiedt.buf
```

```
1  SELECT Ename, Deptno, Sal,
2  (
3  SELECT SUM(Sal), AVG(Sal)
4  FROM Emp
5  ) OrgSum
6* FROM Emp
SQL> /
      SELECT SUM(Sal), AVG(Sal)
      *
```

ERROR at line 3:
ORA-00913: too many values

```
SQL> ED
Wrote file afiedt.buf
```

```
1  SELECT Ename, Deptno, Sal,
2  (
3  SELECT SUM(Sal)
4  FROM Emp
5  ) OrgSum,
6  (
7  SELECT AVG(Sal)
8  FROM Emp
9  ) OrgAvg
10* FROM Emp
SQL> /
```

ENAME	DEPTNO	SAL	ORGSUM	ORGAVG
KING	10	5000	29025	2073.21429
BLAKE	30	2850	29025	2073.21429

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```
.....
CLARK          10          2450      29025 2073.21429
JONES          20          2975      29025 2073.21429
MARTIN         30          1250      29025 2073.21429
ALLEN          30          1600      29025 2073.21429
TURNER         30          1500      29025 2073.21429
JAMES          30           950      29025 2073.21429
WARD           30          1250      29025 2073.21429
FORD           20          3000      29025 2073.21429
SMITH          20           800      29025 2073.21429
SCOTT          20          3000      29025 2073.21429
ADAMS          20          1100      29025 2073.21429
MILLER         10          1300      29025 2073.21429
```

14 rows selected.

SQL> ED

Wrote file afiedt.buf

```
1  SELECT Ename, Deptno, Sal,
2  (
3  SELECT SUM(Sal)
4  FROM Emp
5  GROUP BY Deptno
6  ) OrgSum
7* FROM Emp
```

SQL> /

```
SELECT SUM(Sal)
*
```

ERROR at line 3:

ORA-01427: single-row subquery returns more than one row

SQL> cl scr

```
SQL> SELECT Ename, Job, OE.Deptno, Sal
2  FROM Emp OE
3  WHERE OE.Sal >
4  (
5  SELECT AVG(Sal)
6  FROM Emp IE
7  WHERE IE.Deptno = OE.Deptno
8  ),
```

ENAME	JOB	DEPTNO	SAL
KING	PRESIDENT	10	5000
BLAKE	MANAGER	30	2850
JONES	MANAGER	20	2975

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```
.....
ALLEN      SALESMAN      30      1600
FORD       ANALYST       20      3000
SCOTT      ANALYST       20      3000
```

6 rows selected.

```
SQL> SELECT Deptno, AVG(Sal)
2  FROM Emp
3  GROUP BY Deptno
4  ORDER BY Deptno;
```

```
DEPTNO    AVG(SAL)
-----
10 2916.66667
20      2175
30 1566.66667
```

```
SQL> SELECT Ename, Job, OE.Deptno, Sal
2  FROM Emp OE;
```

```
ENAME      JOB      DEPTNO    SAL
-----
KING       PRESIDENT      10      5000
BLAKE      MANAGER       30      2850
CLARK      MANAGER       10      2450
JONES      MANAGER       20      2975
MARTIN     SALESMAN       30      1250
ALLEN      SALESMAN       30      1600
TURNER     SALESMAN       30      1500
JAMES      CLERK         30       950
WARD       SALESMAN       30      1250
FORD       ANALYST       20      3000
SMITH      CLERK         20       800
SCOTT      ANALYST       20      3000
ADAMS      CLERK         20      1100
MILLER     CLERK         10      1300
```

14 rows selected.

```
SQL> cl scr
```

```
SQL> SELECT Ename, Job, OE.Deptno, Sal
2  FROM Emp OE
3  WHERE OE.Sal >
4  (
5  SELECT AVG(Sal)
6  FROM Emp IE
7  WHERE IE.Deptno = OE.Deptno
```

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8);

ENAME	JOB	DEPTNO	SAL
KING	PRESIDENT	10	5000
BLAKE	MANAGER	30	2850
JONES	MANAGER	20	2975
ALLEN	SALESMAN	30	1600
FORD	ANALYST	20	3000
SCOTT	ANALYST	20	3000

6 rows selected.

SQL> ED

Wrote file afiedt.buf

```
1  SELECT Ename, Job, OE.Deptno, Sal
2  FROM Emp OE,
3  (
4  SELECT Deptno, AVG(Sal) SalAvg
5  FROM Emp
6  GROUP BY Deptno
7  ) IE
8  WHERE OE.Deptno = IE.Deptno AND
9* OE.Sal > IE.SalAvg
SQL> /
```

ENAME	JOB	DEPTNO	SAL
ALLEN	SALESMAN	30	1600
BLAKE	MANAGER	30	2850
SCOTT	ANALYST	20	3000
FORD	ANALYST	20	3000
JONES	MANAGER	20	2975
KING	PRESIDENT	10	5000

6 rows selected.

SQL> SET AUTOTRACE ON EXPLAIN

```
SQL> SELECT Ename, Job, OE.Deptno, Sal
2  FROM Emp OE,
3  (
4  SELECT Deptno, AVG(Sal) SalAvg
5  FROM Emp
6  GROUP BY Deptno
7  ) IE
8  WHERE OE.Deptno = IE.Deptno AND
9  OE.Sal > IE.SalAvg;
```

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ENAME	JOB	DEPTNO	SAL
ALLEN	SALESMAN	30	1600
BLAKE	MANAGER	30	2850
SCOTT	ANALYST	20	3000
FORD	ANALYST	20	3000
JONES	MANAGER	20	2975
KING	PRESIDENT	10	5000

6 rows selected.

Execution Plan

Plan hash value: 2230095667

Id	Operation	Name	Rows	Bytes	Cost (%CPU)	Time
0	SELECT STATEMENT		3	195	8 (25)	
1	HASH JOIN		3	195	8 (25)	
2	TABLE ACCESS FULL	EMP	14	546	3 (0)	
3	VIEW		14	364	4 (25)	
4	HASH GROUP BY		14	364	4 (25)	
5	TABLE ACCESS FULL	EMP	14	364	3 (0)	

Predicate Information (identified by operation id):

```
access("OE"."DEPTNO"="IE"."DEPTNO")
filter("OE"."SAL">"IE"."SALAVG")
```

Note

- dynamic sampling used for this statement

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```
SQL> SELECT Ename, Job, OE.Deptno, Sal
  2  FROM Emp OE
  3  WHERE OE.Sal >
  4    (
  5    SELECT AVG(Sal)
  6    FROM Emp IE
  7    WHERE IE.Deptno = OE.Deptno
  8    );
```

ENAME	JOB	DEPTNO	SAL
KING	PRESIDENT	10	5000
BLAKE	MANAGER	30	2850
JONES	MANAGER	20	2975
ALLEN	SALESMAN	30	1600
FORD	ANALYST	20	3000
SCOTT	ANALYST	20	3000

6 rows selected.

Execution Plan

Plan hash value: 2649664444

Id	Operation	Name	Rows	Bytes	Cost (%CPU)	Time
0	SELECT STATEMENT		3	117	6 (0)	00:00:01
* 1	FILTER					
2	TABLE ACCESS FULL	EMP	14	546	3 (0)	00:00:01
3	SORT AGGREGATE		1	26		
* 4	TABLE ACCESS FULL	EMP	1	26	3 (0)	00:00:01

Predicate Information (identified by operation id):

1 - filter("OE"."SAL"> (SELECT AVG("SAL") FROM "EMP" "IE" WHERE

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```
"IE"."DEPTNO"=:B1))
4 - filter("IE"."DEPTNO"=:B1)
```

Note

- dynamic sampling used for this statement

SQL> ED

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```
1  SELECT Ename, Job, OE.Deptno, Sal, SalAvg
2  FROM Emp OE,
3       (
4       SELECT Deptno, AVG(Sal) SalAvg
5       FROM Emp
6       GROUP BY Deptno
7       ) IE
8  WHERE OE.Deptno = IE.Deptno AND
9* OE.Sal > IE.SalAvg;
SQL> /
OE.Sal > IE.SalAvg;
*
```

ERROR at line 9:

ORA-00911: invalid character

SQL> ED

Wrote file afiedt.buf

```
1  SELECT Ename, Job, OE.Deptno, Sal, SalAvg
2  FROM Emp OE,
3       (
4       SELECT Deptno, AVG(Sal) SalAvg
5       FROM Emp
6       GROUP BY Deptno
7       ) IE
8  WHERE OE.Deptno = IE.Deptno AND
9* OE.Sal > IE.SalAvg
SQL> /
```

ENAME	JOB	DEPTNO	SAL	SALAVG
ALLEN	SALESMAN	30	1600	1566.66667
BLAKE	MANAGER	30	2850	1566.66667
SCOTT	ANALYST	20	3000	2175
FORD	ANALYST	20	3000	2175
JONES	MANAGER	20	2975	2175
KING	PRESIDENT	10	5000	2916.66667

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6 rows selected.

Execution Plan

Plan hash value: 2230095667

Id	Operation	Name	Rows	Bytes	Cost (%CPU)	Time
0	SELECT STATEMENT		3	195	8 (25)	
1	HASH JOIN		3	195	8 (25)	
2	TABLE ACCESS FULL	EMP	14	546	3 (0)	
3	VIEW		14	364	4 (25)	
4	HASH GROUP BY		14	364	4 (25)	
5	TABLE ACCESS FULL	EMP	14	364	3 (0)	

Predicate Information (identified by operation id):

```
1 - access("OE"."DEPTNO"="IE"."DEPTNO")
    filter("OE"."SAL">"IE"."SALAVG")
```

Note

- dynamic sampling used for this statement

SQL> cl scr

SQL> SET AUTOTRACE OFF EXPLAIN

SQL> cl scr

```
SQL> SELECT Empno, Ename, E.Deptno, Sal, MGR
2 FROM Emp E
3 WHERE E.Sal >
4 (
```

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```
5  SELECT M.Sal
6  FROM Emp M
7  WHERE M.Empno = E.MGR
8  );
```

EMPNO	ENAME	DEPTNO	SAL	MGR
7902	FORD	20	3000	7566
7788	SCOTT	20	3000	7566

```
SQL> SELECT Ename, Sal
2  FROM Emp
3  WHERE Empno = 7566;
```

ENAME	SAL
JONES	2975

```
SQL> cl scr
```

```
SQL> SELECT Deptno, Dname
2  FROM Dept D;
```

DEPTNO	DNAME
10	ACCOUNTING
20	RESEARCH
30	SALES
40	OPERATIONS

```
SQL> SELECT Ename, Sal, Job, Deptno
2  FROM Emp;
```

ENAME	SAL	JOB	DEPTNO
KING	5000	PRESIDENT	10
BLAKE	2850	MANAGER	30
CLARK	2450	MANAGER	10
JONES	2975	MANAGER	20
MARTIN	1250	SALESMAN	30
ALLEN	1600	SALESMAN	30
TURNER	1500	SALESMAN	30
JAMES	950	CLERK	30
WARD	1250	SALESMAN	30
FORD	3000	ANALYST	20
SMITH	800	CLERK	20
SCOTT	3000	ANALYST	20
ADAMS	1100	CLERK	20

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MILLER 1300 CLERK 10

14 rows selected.

```
SQL> SELECT Deptno, Dname
  2 FROM Dept D
  3 WHERE D.Deptno =
  4 (
  5 SELECT Deptno
  6 FROM Emp E
  7 WHERE E.Deptno = D.Deptno
  8 );
  SELECT Deptno
  *
```

ERROR at line 5:

ORA-01427: single-row subquery returns more than one row

```
SQL> ED
Wrote file afiedt.buf
```

```
  1 SELECT Deptno, Dname
  2 FROM Dept D
  3 WHERE D.Deptno IN
  4 (
  5 SELECT Deptno
  6 FROM Emp E
  7 WHERE E.Deptno = D.Deptno
  8* )
SQL> /
```

DEPTNO	DNAME
--------	-------

10	ACCOUNTING
30	SALES
20	RESEARCH

```
SQL> ED
Wrote file afiedt.buf
```

```
  1 SELECT Deptno, Dname
  2 FROM Dept D
  3 WHERE D.Deptno IN
  4 (
  5 SELECT Deptno
  6 FROM Emp
  7* )
SQL> /
```

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DEPTNO DNAME

10 ACCOUNTING
30 SALES
20 RESEARCH

```
SQL> SELECT Deptno, Dname
2 FROM Dept D
3 WHERE EXISTS
4 (
5 SELECT *
6 FROM Emp E
7 WHERE D.Deptno = E.Deptno
8 );
```

DEPTNO DNAME

10 ACCOUNTING
30 SALES
20 RESEARCH

```
SQL> ED
Wrote file afiedt.buf
```

```
1 SELECT Deptno, Dname
2 FROM Dept D
3 WHERE EXISTS
4 (
5 SELECT Deptno
6 FROM Emp E
7 WHERE D.Deptno = E.Deptno
8* )
SQL> /
```

DEPTNO DNAME

10 ACCOUNTING
30 SALES
20 RESEARCH

```
SQL> ED
Wrote file afiedt.buf
```

```
1 SELECT Deptno, Dname
2 FROM Dept D
3 WHERE EXISTS
4 (
```

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```
5  SELECT 1
6  FROM Emp E
7  WHERE D.Deptno = E.Deptno
8* )
SQL> /
```

```
DEPTNO DNAME
-----
```

```
10 ACCOUNTING
30 SALES
20 RESEARCH
```

```
SQL> ED
Wrote file afiedt.buf
```

```
1  SELECT Deptno, Dname
2  FROM Dept D
3  WHERE NOT EXISTS
4  (
5  SELECT 1
6  FROM Emp E
7  WHERE D.Deptno = E.Deptno
8* )
SQL> /
```

```
DEPTNO DNAME
-----
```

```
40 OPERATIONS
```

```
SQL> cl scr
```

```
SQL> SELECT E.Ename
2  FROM Emp E
3  WHERE EXISTS
4  (
5  SELECT *
6  FROM Emp E1
7  WHERE E1.Empno = E.Mgr
8  );
```

```
ENAME
-----
```

```
BLAKE
CLARK
JONES
MARTIN
ALLEN
TURNER
```

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```
JAMES  
WARD  
FORD  
SMITH  
SCOTT  
ADAMS  
MILLER
```

13 rows selected.

```
SQL> cl scr
```

```
SQL> SELECT Ename  
2 FROM Emp  
3 WHERE MGR IS NOT NULL;
```

```
ENAME  
-----
```

```
BLAKE  
CLARK  
JONES  
MARTIN  
ALLEN  
TURNER  
JAMES  
WARD  
FORD  
SMITH  
SCOTT  
ADAMS  
MILLER
```

13 rows selected.

```
SQL> ED  
Wrote file afledt.buf
```

```
1 SELECT Ename  
2 FROM Emp  
3 WHERE MGR IN  
4 (  
5 SELECT MGR  
6 FROM Emp  
7* )  
SQL> /
```

```
ENAME  
-----
```

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JONES
CLARK
BLAKE
WARD
JAMES
TURNER
ALLEN
MARTIN
SCOTT
FORD
SMITH
ADAMS
MILLER

13 rows selected.

SQL> ED
Wrote file afiedt.buf

```
1  SELECT Ename
2  FROM Emp OE
3  WHERE MGR IN
4    (
5    SELECT MGR
6    FROM Emp IE
7    WHERE IE.Empno = OE.MGR
8* )
SQL> /
```

no rows selected

SQL> Ed
Wrote file afiedt.buf

```
1  SELECT Ename
2  FROM Emp OE
3  WHERE MGR IN
4    (
5    SELECT MGR
6    FROM Emp IE
7    WHERE IE.MGR = OE.MGR
8* )
SQL> /
```

ENAME

JONES
CLARK

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```
BLAKE  
WARD  
JAMES  
TURNER  
ALLEN  
MARTIN  
SCOTT  
FORD  
SMITH  
ADAMS  
MILLER
```

13 rows selected.

```
SQL> ED  
Wrote file afiedt.buf
```

```
1  SELECT Ename  
2  FROM Emp OE  
3  WHERE EXISTS  
4    (  
5    SELECT *  
6    FROM Emp IE  
7    WHERE IE.MGR = OE.MGR  
8* )  
SQL> /
```

ENAME

```
-----  
JONES  
CLARK  
BLAKE  
WARD  
JAMES  
TURNER  
ALLEN  
MARTIN  
SCOTT  
FORD  
SMITH  
ADAMS  
MILLER
```

13 rows selected.

```
SQL> ED  
Wrote file afiedt.buf
```

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Spool File For Oracle Students Trained by Mr.Sathish Yellanki

```
1  SELECT Ename
2  FROM Emp OE
3  WHERE EXISTS
4    (
5    SELECT 1
6    FROM Emp IE
7    WHERE IE.MGR = OE.MGR
8*  )
SQL> /
```

ENAME

JONES
CLARK
BLAKE
WARD
JAMES
TURNER
ALLEN
MARTIN
SCOTT
FORD
SMITH
ADAMS
MILLER

13 rows selected.

```
SQL> ED
Wrote file afiedt.buf
```

```
1  SELECT Ename
2  FROM Emp OE
3  WHERE NOT EXISTS
4    (
5    SELECT 1
6    FROM Emp IE
7    WHERE IE.MGR = OE.MGR
8*  )
SQL>
```

ENAME

KING

```
SQL> cl scr
```

```
SQL> SELECT E.Ename
```

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```
2 FROM Emp E
3 WHERE EXISTS
4 (
5 SELECT *
6 FROM Emp E1
7 WHERE E1.Mgr = E.Empno
8 );
```

ENAME

KING
BLAKE
JONES
FORD
SCOTT
CLARK

6 rows selected.

SQL> ED
Wrote file afiedt.buf

```
1 SELECT E.Ename
2 FROM Emp E
3 WHERE NOT EXISTS
4 (
5 SELECT *
6 FROM Emp E1
7 WHERE E1.Mgr = E.Empno
8* )
SQL> /
```

ENAME

TURNER
WARD
MARTIN
ALLEN
MILLER
SMITH
ADAMS
JAMES

8 rows selected.

SQL> ED
Wrote file afiedt.buf

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Spool File For Oracle Students Trained by Mr.Sathish Yellanki

```
1  SELECT E.Ename, E.Sal, E.Comm
2  FROM Emp E
3  WHERE EXISTS
4  (
5  SELECT *
6  FROM Emp E1
7  WHERE E1.Comm = E.Comm
8* )
SQL> /
```

ENAME	SAL	COMM
MARTIN	1250	1400
ALLEN	1600	300
TURNER	1500	0
WARD	1250	500

```
SQL> ED
Wrote file afiedt.buf
```

```
1  SELECT E.Ename, E.Sal, E.Comm
2  FROM Emp E
3  WHERE NOT EXISTS
4  (
5  SELECT *
6  FROM Emp E1
7  WHERE E1.Comm = E.Comm
8* )
SQL> /
```

ENAME	SAL	COMM
MILLER	1300	
ADAMS	1100	
SCOTT	3000	
SMITH	800	
FORD	3000	
JAMES	950	
JONES	2975	
CLARK	2450	
BLAKE	2850	
KING	5000	

10 rows selected.

```
SQL> SPOOL OFF
```

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